Annual Report of Operations for Year 2016

To comply with NPDES General Permit No. WAG130000 for Federal Aquaculture Facilities and Aquaculture Facilities Located in Indian Country within the Boundaries of the State of Washington

NPDES # for your Facility: WAG130000

Facility & Owner Information

Facility Name: Salmon River Fish Culture Facility	
Operator Name (Permittee): Quinault Indian Nation	
Address: 1214 Aalis St. Taholah, WA 98587	
Email: tjurasin@quinault.org	Phone: 360-276-8211
Owner Name (if different from operator): —	
Email: —	Phone: —

Best Management Practices (BMP) Plan

Has the BMP Plan been reviewed this year? ☑ Yes ☐ No

Does the BMP Plan fulfill the requirements of the General Permit? ☑ Yes ☐ No

Summarize any changes to the BMP Plan since the last annual report. Attach additional pages if necessary.

EPA General Permit WAG130000 - Annual Report

Operations and Production

Total harvestable weight produced in the past calendar year in pounds (lbs):	80,404
Pounds of food fed to fish during the maximum month:	16,334

List the species grown or held at your facility and the annual production of each in gross harvestable weight. If fish were released rather than harvested, list the weight at time of release.

Species	Fish Produced	Receiving Water(s) to which Fish were Released	Month Released/ Spawned
BY14 Coho	13,077	Salmon River	April
BY15 Coho	34,419	Salmon River	2017
BY15 Steelhead	15,472	Salmon River	April
BY16 Steelhead	12,432	Salmon River	2017
BY15 Chinook	5,004	Salmon River	July

Fill in the table below with production numbers from the past year. List the **maximum** amount of fish on-site and the maximum amount of food fed **per month.**

Month	Total Fish (lbs)	Fish Feed (lbs)	Month	Total Fish (lbs)	Fish Feed (lbs)
January	60,204	7,358	July	18,825	4,208
February	72,359	11,996	August	19,222	4,775
March	82,485	16,334	September	31,980	5,916
April	87,112	5,524	October	41,560	8,128
May	7,500	2,830	November	50,974	10,251
June	14,372	4,580	December	54,325	7,760

Additional Comments:

Solid Waste Disposal

Describe the solid waste disposed of during the calendar year (including fish mortalities).

Type of Solid Disposed	Date Disposed	Location Disposed
OLSP Fish Waste & River Sediment	5-25-16	Upland disposal QIR
Fish mortalities	1-1 to 12-31-16	Upland disposal QIR

Additional Comments: QIR = Quinault Indian Reservation

Fish Mortalities

Include a description and the dates of mass mortalities in the past year (more than 5% per week). Attach additional pages, if necessary. Include total mortalities from all causes.

Date	Cause of Deaths	Steps Taken to Correct Problem	Pounds of Fish

Additional Comments: No mass mortalities to report (>5%/week)

Noncompliance Summary

Include a description and the dates of noncompliance events (including spills), the reasons for the incidents, and the steps taken to correct the problems. Attach additional pages, if necessary.

As reported on the August 2016 DMR, net monthy average TSS value exceeded the 5mg/L limit by 0.5 mg/L. This was considered an anomaly and not indicative of normal conditions. Fine river silts that settle in rearing areas are also known to resuspend with fish activity and is a likely explanation.
No other exceedances occurred during 2016.

Inspections & Repairs for Production & Wastewater Treatment Systems

Date Inspected	Date Repaired	Description of System Inspected and/or Repaired
5-25-16		OLSP harvest/cleanout, inspection for leaks/condition
1-1 to 12-31-16		Continuous and intermitten inspection of production units and all conveyances (weekly on average)

Aquaculture Drugs and Chemicals

Please indicate whether you used each drug/chemical **during the past calendar year.**
Describe the use of each drug/chemical in more detail on the following pages.

Used in the past year?	Drug or Chemical
☐ Yes ☒ No	Azithromycin
☐ Yes ☒ No	Chloramine-T: ***See additional reporting requirements on page 7***
☐ Yes ☒ No	Chlorine
☐ Yes ☒ No	Draxxin
☐ Yes ☒ No	Erythromycin - injectable
☐ Yes ☒ No	Erythromycin - medicated feed
☒ Yes ☐ No	Florfenicol (Aquaflor)
☒ Yes ☐ No	Formalin - 37% formaldehyde: ***See additional reporting requirements on page 7***
☐ Yes ☒ No	Herbicide - describe:
☐ Yes ☒ No	Hormone - describe:
☐ Yes ☒ No	Hydrogen Peroxide: ***See additional reporting requirements on page 7***
☒ Yes ☐ No	Iodine: ***See additional reporting requirements on page 7***
☐ Yes ☒ No	Oxytetracycline
☐ Yes ☒ No	Potassium Permanganate: ***See additional reporting requirements on page 7***
☒ Yes ☐ No	Romet
☐ Yes ☒ No	SLICE (emamectin benzoate)
☐ Yes ☒ No	Sodium Chloride - salt
☐ Yes ☒ No	Vibrio vaccine
☐ Yes ☐ No	Other:
☐ Yes ☐ No	Other:

Aquaculture Drugs and Chemicals (cont'd)

Describe all drug and/or chemical treatments that occurred during the year. Fill out the information below for each drug or chemical, plus page 7 for water-borne treatments. Attach additional pages as necessary.

Brand Name: Romet TC		Generic Name: Romet	
Reason for use: Aeromonas salmonicida / Furunculosis Coho & Chinook			
☐ Preventative/Prophylactic ☒ As-needed	Total quantity of formulated product per treatment (specify units): See report Avg. 560 lb	Total quantity of formulated product used in past year (specify units): 2,811 lbs of top-dressed label use feed	
Date(s) of treatment: 5-18, 6-7, 6-8, 8-31, 11-3 See attached Medicated Feed Report			Total number of treatments in past year: 5 all species
Maximum daily volume of treated water: NA	Treatment concentration (specify units): NA	Duration and frequency of treatment(s): 5 days, as needed	
Method of application:	☐ Static Bath ☐ Flow-through	☒ Medicated Feed ☐ Other (describe):	
Location in facility chemical was used (check all that apply):	☒ Raceways ☐ Incubation building	☒ Ponds ☐ Off-line settling basin	☐ Other (describe):
Where did water treated with this chemical go? (check all that apply):	☐ Discharged w/o treatment ☐ Settling basin	☐ Septic System ☐ Publicly owned treatment works	☐ Other (describe): NA
Provide any additional information about how this chemical was used and/or special pollution prevention practices during use:			

Brand Name: Aquaflor		Generic Name: Florfenicol	
Reason for use: Flavobacterium psychrophilum / Cold water disease Coho & Chinook			
☐ Preventative/Prophylactic ☒ As-needed	Total quantity of formulated product per treatment: See report Avg. 2251 lb	Total quantity of formulated product used in past year (specify units): 676 lbs. of feed label use	
Date(s) of treatment: 2-10, 3-16, 4-15 See attached Medicated Feed Report			Total number of treatments in past year: 3 all species
Maximum daily volume of treated water: NA	Treatment concentration (specify units): NA	Duration and frequency of treatment(s): 10 days, as needed	
Method of application:	☐ Static Bath ☐ Flow-through	☒ Medicated Feed ☐ Other (describe):	
Location in facility chemical was used (check all that apply):	☒ Raceways ☐ Incubation building	☐ Ponds ☐ Off-line settling basin	☐ Other (describe):
Where did water treated with this chemical go? (check all that apply):	☐ Discharged w/o treatment ☐ Settling basin	☐ Septic System ☐ Publicly owned treatment works	☐ Other (describe): NA
Provide any additional information about how this chemical was used and/or special pollution prevention practices during use:			

Aquaculture Drugs and Chemicals (cont'd)

Additional Reporting Requirements for Water-Borne Treatments

- If a water-borne treatment was used during the calendar year, Permittees must include detailed records/calculations as an attachment to this Annual Report in order to demonstrate how the maximum effluent concentrations of solution and active ingredient were calculated for each chemical.
- EPA recognizes that water-borne treatments may vary in the volume of the vessels treated, concentration, quantity of product, etc. Permittees must provide the information listed in the following tables for a reasonable worst case (i.e., maximum effluent concentration) scenario, not for each individual treatment.
- Permittees must submit this information and calculate the maximum effluent concentration for each water-borne chemical used during the past calendar year.
- See also Appendix D for the Chemical Log Sheet.

Static Bath Treatments	
Tank Volume	650 Liters
Desired Static Bath Treatment Concentration	75 µg/L
Volume of Product Needed	5 Liters Product
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: 654 ppb * Active Ingredient: 65 ppb Iodine * Specify Units
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	3,872 gpm 5,575,680 gal/day Specify Units
Maximum % of Facility Discharge Treated	5 % of Total Discharge

Flow-Through Treatments	
Tank Volume	424,000 Liters
Calculated Flow Rate	4,974 Liters/Minute
Duration of Treatment	120 Minutes
Desired Flow-Through Treatment Concentration of Product	82 µg/L
Amount of Product to Add Initially	NA - do not charge ~~Liters Product~~
Amount of Product to Add During Treatment	410 mL/Minute
Total Volume of Product Needed	49.2 Liters Product
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: 17,132 ppb Formalin * Active Ingredient: 6,339 ppb formaldehyde * Specify Units
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	3,872 gpm 5,575,680 gal/day Specify Units
Maximum % of Facility Discharge Treated	5 % of Total Discharge

* Maximum effluent concentrations given are maximums as reported on the chemical log sheet, not for hypothetical minimum flow.

Changes to the Facility or Operations

Describe any changes to the facility or operations since the last annual report.
No changes to report.

Signature and Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly evaluate and gather the information submitted. Based on my inquiry of the person or persons, who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Tyler Jurasin	Operations Manager
Printed name of person signing	Title
	1-20-17
Applicant Signature	Date Signed

Submittal Information

Send the complete, signed information, along with any attachments, to the following address:

U.S. EPA Region 10, OWW-191

Washington Hatchery Annual Report

1200 Sixth Avenue, Suite 900

Seattle, WA 98101-3140

CHEMICAL LOG SHEET

(SEE ALSO THE REQUIREMENTS IN THE ANNUAL REPORT)

Facility Name:_ Salmon River Fish Culture Facility

NPDES Permit#__WAG130000__

Flow Through Chemical Treatments															
Date	Vessel(s) Treated	# of Vessels Treated at a Time	Chemical Name:	Active Ingredient	% AI	Amount Applied/ Vessel	Units	Duration of Treatment	Treatment Type:	Treatment Conc. (ppm)	Flow Treated (cfs)	Total Effluent Flow (cfs)	Effluent Conc. Solution (ppb)	Effluent Conc. AI (ppb)	Person reporting
3/3/2016	RW2,3,4	3	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	20.52	10,858	4,018	Dan Fielding
3/17/2016	RW2,3,4	3	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	20.52	10,858	4,018	Dan Fielding
3/18/2016	RW2,3,4	3	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	20.52	10,858	4,018	Dan Fielding
5/8/2016	RW2	1	Formalin	Formaldehyde	37%	11,733	mL	60	Flush	174	0.66	14.09	8,170	3,023	Dan Fielding
5/8/2016	RW3	1	Formalin	Formaldehyde	37%	14,761	mL	60	Flush	163	0.89	14.09	10,279	3,803	Dan Fielding
5/8/2016	RW4	1	Formalin	Formaldehyde	37%	13,626	mL	60	Flush	150	0.89	14.09	9,488	3,511	Dan Fielding
5/8/2016	RW5	1	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	14.09	5,271	1,950	Dan Fielding
5/9/2016	RW2	1	Formalin	Formaldehyde	37%	11,733	mL	60	Flush	174	0.66	14.09	8,170	3,023	Dan Fielding
5/9/2016	RW3	1	Formalin	Formaldehyde	37%	14,761	mL	60	Flush	163	0.89	14.09	10,279	3,803	Dan Fielding
5/9/2016	RW4	1	Formalin	Formaldehyde	37%	13,626	mL	60	Flush	150	0.89	14.09	9,488	3,511	Dan Fielding
5/9/2016	RW5	1	Formalin	Formaldehyde	37%	6,056	mL	60	Flush	135	0.44	14.09	4,217	1,560	Dan Fielding
9/29/2016	RW4	1	Formalin	Formaldehyde	37%	49,205	mL	120	Flush	82	2.93	14.09	37,132	6,339	Dan Fielding
9/29/2016	Small Pond	1	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	12.09	6,143	2,273	Dan Fielding
9/30/2016	RW4	1	Formalin	Formaldehyde	37%	45,423	mL	120	Flush	76	2.93	12.09	18,430	6,819	Dan Fielding
9/30/2016	Small Pond	1	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	12.09	6,143	2,273	Dan Fielding
10/1/2016	RW4	1	Formalin	Formaldehyde	37%	45,423	mL	120	Flush	76	2.93	12.09	18,430	6,819	Dan Fielding
10/1/2016	Small Pond	1	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	15.74	4,739	1,746	Dan Fielding
10/18/2016	RW2,3	2	Formalin	Formaldehyde	37%	45,420	mL	120	Flush	76	2.93	15.74	14,156	5,238	Dan Fielding
10/20/2016	RW2,3	2	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	15.74	9,457	3,492	Dan Fielding
10/20/2016	T1	1	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	15.74	9,457	3,492	Dan Fielding
10/22/2016	T1	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
10/24/2016	T1	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
10/25/2016	RW2,3	2	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
10/26/2016	T1	1	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	15.74	9,457	3,492	Dan Fielding
10/27/2016	RW2,3	2	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
10/28/2016	T1	1	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	15.74	9,457	3,492	Dan Fielding
10/30/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
10/30/2016	T1,2	2	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/1/2016	RW2,3	2	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	16.44	9,036	3,343	Dan Fielding
11/1/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/1/2016	T1,2	2	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	2,578	954	Dan Fielding
11/3/2016	RW2,3	2	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	16.44	9,036	3,343	Dan Fielding
11/3/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/3/2016	T1,2	2	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	2,578	954	Dan Fielding
11/5/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/5/2016	T1,2,3	3	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	3,867	1,431	Dan Fielding
11/7/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/7/2016	T1,2,3	3	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	3,867	1,431	Dan Fielding
11/8/2016	RW2,3	2	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	16.44	9,036	3,343	Dan Fielding
11/9/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/9/2016	T1,2,3	3	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	3,867	1,431	Dan Fielding
11/10/2016	RW2,3	2	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	16.44	9,036	3,343	Dan Fielding
11/11/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/11/2016	T1,2,3	3	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	3,867	1,431	Dan Fielding
11/13/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/13/2016	T1,2,3	3	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	3,867	1,431	Dan Fielding
11/15/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/15/2016	T1,2,3	3	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	3,867	1,431	Dan Fielding
11/17/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/17/2016	T1,2,3	3	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	3,867	1,431	Dan Fielding
11/19/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/19/2016	T2,3	2	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	2,578	954	Dan Fielding
11/21/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/21/2016	T2,3	2	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	2,578	954	Dan Fielding
11/23/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/23/2016	T2,3	2	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	2,578	954	Dan Fielding
11/25/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/25/2016	T2,3	2	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	2,578	954	Dan Fielding
11/27/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/27/2016	T2,3	2	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	2,578	954	Dan Fielding
11/29/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	15.74	1,346	498	Dan Fielding
11/29/2016	T3	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	16.44	1,289	477	Dan Fielding
12/1/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/1/2016	T3	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/3/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/3/2016	T3	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/5/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/5/2016	T3	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/7/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/9/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/11/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/13/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/15/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/17/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/19/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/21/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/23/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/25/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/27/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/29/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
12/31/2016	T6	1	Formalin	Formaldehyde	37%	540	mL	15	Flush	1,582	0.0134	11.24	1,885	698	Dan Fielding
3/4/2016	RW2,3,4	3	Formalin	Formaldehyde	37%	7,570	mL	60	Flush	169	0.44	20.52	10,858	4,018	Dan Fielding

Static Bath Chemical Treatments															
Date	Vessel(s) Treated	# of Vessels Treated	Chemical Name	Active Ingredient	% AI	Amount Applied/ Vessel	Units	Vessel Volume(cf)	Treatment Type	Treatment Conc. AI(ppm)	Flow Treated (cfs)	Total Effluent Flow (cfs)	Effluent Conc. Solution (ppb)	Effluent Conc. AI (ppb)	Person reporting
10/18/2016	T1	1	Ovadine	Iodine	10%	5,000	mL	23	Static	77	0.0134	15.74	654	65	Dan Fielding
10/28/2016	T2	1	Ovadine	Iodine	10%	5,000	mL	23	Static	77	0.0134	15.74	654	65	Dan Fielding
11/1/2016	T3	1	Ovadine	Iodine	10%	3,500	mL	16.1	Static	77	0.0134	10.44	626	63	Dan Fielding
10/28/2016	T6	1	Ovadine	Iodine	10%	2,000	mL	9.2	Static	77	0.0134	15.74	654	65	Dan Fielding
11/8/2016	T6	1	Ovadine	Iodine	10%	500	mL	2.3	Static	77	0.0134	10.44	626	63	Dan Fielding
11/15/2016	T6	1	Ovadine	Iodine	10%	500	mL	2.3	Static	77	0.0134	10.44	626	63	Dan Fielding
11/22/2016	T6	1	Ovadine	Iodine	10%	500	mL	2.3	Static	77	0.0134	10.44	626	63	Dan Fielding

1 Both a copy of the label with application requirements and the Material Safety Data Sheet (MSDS) must be kept in your records.

2 Treatment type means, for example, static or flush bath, injection or feed.

Medicated Feed/Antibiotic Usage Report 2016

Salmon River Fish Culture Facility **NPDES Permit # WAG130000**

Romet TC

Start Date	End Date	# of days	Location	Antibiotic	Pathogen	Dosage	Total Medicated Feed (lbs)	Brood Year and Species
5/18/2016	5/22/2016	5	RW 5	Romet TC	Aeromonas salmonicida	50 mg/kg	33	BY15 Chinook
6/7/2016	6/11/2016	5	Large Pond	Romet TC	Aeromonas salmonicida	50 mg/kg	183	BY15 Coho
6/8/2016	6/13/2016	5	Small Pond	Romet TC	Aeromonas salmonicida	50 mg/kg	93	BY15 Chinook
8/31/2016	9/4/2016	5	Large Pond	Romet TC	Aeromonas salmonicida	50 mg/kg	1,001	BY15 Coho
11/3/2016	11/7/2016	5	Large Pond	Romet TC	Aeromonas salmonicida	50 mg/kg	1,501	BY15 Coho
Total							**2,811**	

Aquaflor

2/10/2016	2/19/2016	10	RW 2,3,4	Florfenicol/ Aquaflor	Flavobacterium Psychrophilum	15 mg/Kg	220	BY15 Coho
3/16/2016	3/25/2016	10	RW 2,3,4	Florfenicol/ Aquaflor	Flavobacterium Psychrophilum	15 mg/Kg	396	BY15 Coho
4/15/2016	4/24/2016	10	RW5	Florfenicol/ Aquaflor	Flavobacterium Psychrophilum	15 mg/Kg	60	BY15 Chinook
Total							**676**	